

Power Splitter/Combiner

SBA-2-22

2 Way-0° 50Ω 2000 to 2600 MHz



CASE STYLE: SM2

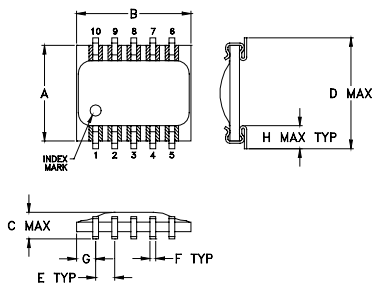
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	2W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

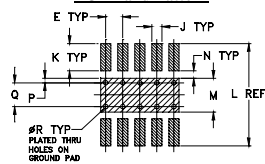
Pin Connections

SUM PORT	3
PORT 1	10
PORT 2	6
GROUND	1,2,4,5,7,8,9

Outline Drawing



PCB Land Pattern

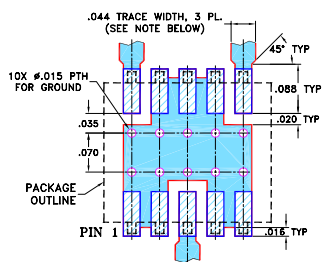


Suggested Layout.

Tolerance to be within ±.002
ADJACENT GROUND PINS SHALL BE CONNECTED
TO EACH OTHER AND TO GROUND PAD

Outline Dimensions (inch)

A	B	C	D	E	F	G	H	
.250	.300	.095	.290	.050	.015	.050	.060	
6.35	7.62	2.41	7.37	1.27	0.38	1.27	1.52	
J	K	L	M	N	P	Q	R	wt
.030	.080	.300	.100	.020	.015	.070	.014	grams
0.76	2.03	7.62	2.54	0.51	0.38	1.78	0.36	0.3

Demo Board MCL P/N: TB-95
Suggested PCB Layout (PL-070)

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015"; COPPER 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

Features

- low profile, 0.07" height
- low insertion loss, 0.8 dB typ.
- excellent amplitude unbalance, 0.3 dB typ.
- solder plated leads for excellent solderability and strain relief
- aqueous washable
- protected by U.S. Patent, 5,534,830

Applications

- PCS

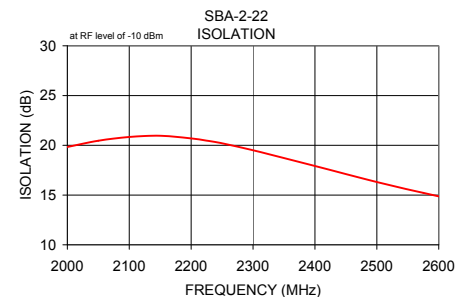
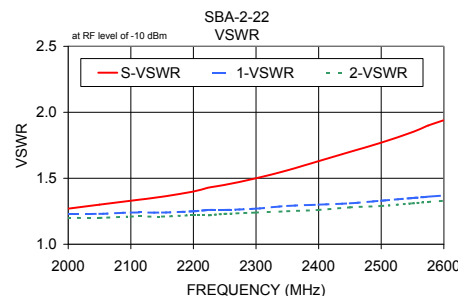
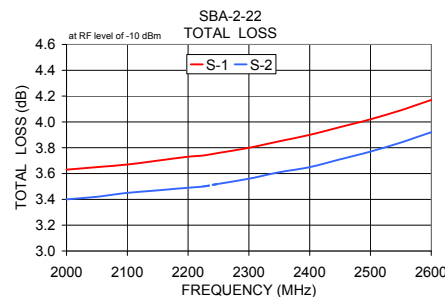
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
2000-2600	18	10	0.8	1.6	10	0.8

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
2000.00	3.63	3.40	0.23	19.83	1.68	1.27	1.23	1.20
2050.00	3.65	3.42	0.23	20.46	1.76	1.30	1.23	1.20
2100.00	3.67	3.45	0.23	20.84	1.80	1.33	1.24	1.21
2150.00	3.70	3.47	0.23	20.96	1.76	1.36	1.24	1.21
2200.00	3.73	3.49	0.24	20.69	1.79	1.40	1.25	1.22
2225.00	3.74	3.50	0.24	20.47	1.83	1.43	1.26	1.22
2250.00	3.76	3.52	0.24	20.20	1.85	1.45	1.26	1.23
2300.00	3.80	3.56	0.24	19.50	1.90	1.50	1.27	1.24
2350.00	3.85	3.61	0.24	18.72	1.95	1.56	1.29	1.25
2400.00	3.90	3.65	0.25	17.92	1.99	1.63	1.30	1.26
2450.00	3.96	3.71	0.25	17.11	2.05	1.70	1.31	1.28
2500.00	4.02	3.77	0.25	16.31	2.12	1.77	1.33	1.29
2550.00	4.09	3.84	0.25	15.57	2.17	1.85	1.35	1.31
2575.00	4.13	3.88	0.25	15.22	2.22	1.90	1.36	1.32
2600.00	4.17	3.92	0.24	14.87	2.26	1.94	1.37	1.33

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



2 Way-0° Power Splitter/Combiner

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Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
550	3.67	3.60	0.07	0.61	5.03	1.86	1.70	1.68
600	3.68	3.60	0.08	0.65	5.26	1.85	1.67	1.65
700	3.68	3.58	0.10	0.62	5.74	1.82	1.61	1.59
800	3.67	3.55	0.12	0.54	6.29	1.78	1.56	1.53
900	3.67	3.53	0.14	0.44	6.90	1.75	1.51	1.47
1000	3.65	3.51	0.14	0.37	7.53	1.71	1.46	1.42
1100	3.64	3.49	0.15	0.29	8.24	1.67	1.42	1.37
1200	3.63	3.48	0.15	0.20	8.99	1.63	1.38	1.33
1300	3.62	3.45	0.17	0.18	9.82	1.59	1.34	1.29
1400	3.60	3.43	0.17	0.04	10.69	1.54	1.31	1.26
1500	3.59	3.42	0.17	0.02	11.65	1.49	1.28	1.23
1600	3.58	3.40	0.18	0.14	12.67	1.45	1.26	1.20
1700	3.56	3.39	0.17	0.25	13.77	1.40	1.24	1.18
1800	3.55	3.39	0.16	0.29	14.98	1.36	1.22	1.16
1900	3.55	3.38	0.17	0.35	16.30	1.32	1.20	1.15
2000	3.54	3.38	0.16	0.40	17.70	1.29	1.19	1.13
2025	3.55	3.39	0.16	0.43	18.06	1.28	1.18	1.13
2050	3.54	3.39	0.15	0.43	18.43	1.27	1.18	1.13
2075	3.55	3.39	0.16	0.47	18.77	1.27	1.18	1.12
2100	3.55	3.39	0.16	0.45	19.12	1.26	1.17	1.12
2125	3.55	3.39	0.16	0.50	19.47	1.26	1.17	1.12
2150	3.54	3.39	0.15	0.49	19.82	1.26	1.16	1.12
2175	3.55	3.39	0.16	0.54	20.13	1.25	1.16	1.11
2200	3.55	3.40	0.15	0.56	20.43	1.25	1.16	1.11
2225	3.56	3.41	0.15	0.57	20.69	1.25	1.15	1.11
2250	3.56	3.41	0.15	0.60	20.89	1.25	1.15	1.10
2275	3.56	3.41	0.15	0.60	21.09	1.25	1.15	1.10
2300	3.56	3.41	0.15	0.63	21.24	1.25	1.14	1.10
2325	3.56	3.42	0.14	0.66	21.33	1.26	1.14	1.09
2350	3.57	3.42	0.15	0.66	21.35	1.26	1.14	1.09
2375	3.58	3.44	0.14	0.68	21.29	1.26	1.13	1.09
2400	3.58	3.44	0.14	0.73	21.20	1.27	1.13	1.09
2425	3.59	3.44	0.15	0.72	21.04	1.28	1.13	1.08
2450	3.59	3.45	0.14	0.76	20.88	1.28	1.13	1.08
2475	3.60	3.46	0.14	0.76	20.59	1.29	1.12	1.08
2500	3.60	3.47	0.13	0.80	20.32	1.30	1.12	1.08
2525	3.61	3.47	0.14	0.78	19.99	1.31	1.12	1.07
2550	3.62	3.49	0.13	0.85	19.65	1.32	1.12	1.07
2575	3.63	3.50	0.13	0.85	19.26	1.33	1.12	1.07
2600	3.64	3.51	0.13	0.84	18.88	1.34	1.11	1.07
2700	3.68	3.55	0.13	0.94	17.34	1.40	1.11	1.07
2800	3.75	3.63	0.12	1.05	15.80	1.48	1.11	1.07
2900	3.82	3.71	0.11	1.14	14.39	1.57	1.11	1.08
3000	3.92	3.81	0.11	1.22	13.05	1.68	1.12	1.10
3100	4.05	3.95	0.09	1.36	11.86	1.82	1.15	1.13
3200	4.21	4.13	0.08	1.40	10.77	2.00	1.20	1.18
3300	4.43	4.36	0.07	1.50	9.82	2.23	1.27	1.25
3400	4.72	4.66	0.05	1.59	8.98	2.52	1.36	1.35
3500	5.09	5.05	0.04	1.65	8.30	2.91	1.48	1.48
3600	5.55	5.53	0.02	1.78	7.75	3.43	1.63	1.64

¹ Total Loss = Insertion Loss+ 3 dB Splitter Loss

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Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
550	3.56	3.50	0.06	0.44	4.94	1.87	1.72	1.72
600	3.58	3.50	0.08	0.58	5.16	1.87	1.69	1.68
700	3.58	3.45	0.13	0.33	5.63	1.84	1.63	1.60
800	3.57	3.43	0.14	0.07	6.16	1.81	1.57	1.54
900	3.52	3.38	0.14	0.04	6.74	1.77	1.53	1.48
1000	3.50	3.37	0.13	0.09	7.34	1.74	1.48	1.44
1100	3.50	3.35	0.15	0.14	8.03	1.70	1.43	1.38
1200	3.48	3.31	0.17	0.00	8.77	1.65	1.39	1.33
1300	3.45	3.27	0.18	0.22	9.59	1.60	1.34	1.28
1400	3.43	3.25	0.18	0.64	10.46	1.56	1.29	1.24
1500	3.40	3.22	0.18	0.65	11.41	1.51	1.26	1.21
1600	3.37	3.19	0.18	0.72	12.46	1.46	1.24	1.19
1700	3.35	3.17	0.18	0.77	13.67	1.41	1.23	1.18
1800	3.32	3.16	0.16	0.84	14.95	1.37	1.22	1.18
1900	3.32	3.15	0.17	1.10	16.35	1.34	1.22	1.18
2000	3.31	3.15	0.16	1.13	17.76	1.32	1.22	1.18
2025	3.32	3.16	0.16	1.14	17.95	1.33	1.22	1.19
2050	3.31	3.15	0.16	1.19	18.25	1.33	1.22	1.18
2075	3.31	3.15	0.16	1.20	18.56	1.32	1.22	1.17
2100	3.31	3.15	0.16	1.16	18.97	1.31	1.21	1.17
2125	3.31	3.16	0.15	1.24	19.17	1.32	1.21	1.18
2150	3.31	3.17	0.14	1.29	19.38	1.33	1.21	1.17
2175	3.32	3.17	0.15	1.33	19.55	1.32	1.21	1.17
2200	3.32	3.17	0.15	1.37	19.85	1.32	1.21	1.16
2225	3.32	3.18	0.14	1.41	19.95	1.33	1.21	1.16
2250	3.32	3.18	0.14	1.47	20.02	1.34	1.20	1.16
2275	3.33	3.19	0.14	1.44	20.01	1.33	1.20	1.15
2300	3.32	3.19	0.13	1.45	20.16	1.34	1.20	1.15
2325	3.33	3.19	0.14	1.43	20.17	1.34	1.20	1.14
2350	3.33	3.19	0.14	1.44	20.11	1.35	1.19	1.14
2375	3.33	3.20	0.13	1.46	19.94	1.36	1.19	1.13
2400	3.33	3.20	0.13	1.48	19.88	1.36	1.19	1.12
2425	3.34	3.20	0.14	1.51	19.79	1.35	1.18	1.11
2450	3.33	3.20	0.13	1.52	19.78	1.34	1.17	1.10
2475	3.34	3.20	0.14	1.55	19.60	1.35	1.16	1.10
2500	3.34	3.20	0.14	1.65	19.43	1.35	1.16	1.09
2525	3.35	3.21	0.14	1.64	19.21	1.36	1.15	1.09
2550	3.34	3.21	0.13	1.73	19.06	1.35	1.15	1.07
2575	3.34	3.21	0.13	1.72	18.90	1.35	1.13	1.06
2600	3.35	3.22	0.13	1.74	18.64	1.35	1.13	1.05
2700	3.35	3.22	0.13	1.78	17.59	1.36	1.09	1.03
2800	3.37	3.25	0.12	1.94	16.33	1.40	1.07	1.03
2900	3.40	3.31	0.09	1.99	14.99	1.46	1.06	1.05
3000	3.46	3.38	0.08	2.02	13.52	1.55	1.06	1.07
3100	3.58	3.50	0.07	2.04	12.08	1.71	1.08	1.11
3200	3.76	3.69	0.07	2.07	10.71	1.94	1.14	1.16
3300	4.01	3.94	0.07	2.10	9.60	2.23	1.23	1.26
3400	4.38	4.30	0.08	2.21	8.64	2.67	1.37	1.39
3500	4.85	4.77	0.07	2.26	7.87	3.27	1.52	1.55
3600	5.43	5.34	0.09	2.63	7.35	4.02	1.74	1.74

¹ Total Loss = Insertion Loss+ 3 dB Splitter Loss

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2 Way-0° Power Splitter/Combiner

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Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10dBm @Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
550	3.70	3.63	0.07	0.63	5.07	1.85	1.69	1.67
600	3.72	3.64	0.08	0.59	5.31	1.84	1.66	1.64
700	3.72	3.61	0.11	0.70	5.82	1.80	1.60	1.58
800	3.74	3.59	0.15	0.49	6.39	1.76	1.55	1.52
900	3.70	3.56	0.14	0.33	6.99	1.73	1.51	1.47
1000	3.70	3.56	0.14	0.52	7.64	1.69	1.46	1.42
1100	3.71	3.55	0.16	0.37	8.40	1.65	1.42	1.38
1200	3.70	3.54	0.16	0.34	9.16	1.61	1.39	1.35
1300	3.69	3.52	0.17	0.20	9.99	1.57	1.36	1.32
1400	3.68	3.51	0.17	0.16	10.86	1.53	1.33	1.29
1500	3.68	3.50	0.18	0.13	11.78	1.48	1.30	1.25
1600	3.67	3.48	0.19	0.19	12.74	1.44	1.27	1.22
1700	3.65	3.48	0.17	0.13	13.80	1.40	1.25	1.20
1800	3.64	3.48	0.16	0.21	14.91	1.36	1.23	1.17
1900	3.65	3.48	0.17	0.37	16.14	1.32	1.20	1.14
2000	3.64	3.47	0.17	0.43	17.50	1.28	1.17	1.11
2025	3.65	3.48	0.17	0.43	17.86	1.28	1.17	1.11
2050	3.64	3.47	0.17	0.51	18.23	1.26	1.16	1.10
2075	3.63	3.47	0.16	0.50	18.63	1.26	1.16	1.10
2100	3.63	3.47	0.16	0.48	19.01	1.25	1.15	1.09
2125	3.64	3.47	0.17	0.49	19.42	1.24	1.14	1.09
2150	3.64	3.48	0.16	0.58	19.83	1.23	1.14	1.08
2175	3.64	3.48	0.16	0.62	20.21	1.22	1.13	1.08
2200	3.64	3.49	0.15	0.71	20.61	1.21	1.13	1.07
2225	3.64	3.49	0.15	0.71	20.97	1.21	1.12	1.07
2250	3.65	3.50	0.15	0.78	21.31	1.20	1.12	1.07
2275	3.66	3.51	0.15	0.72	21.52	1.20	1.11	1.07
2300	3.65	3.51	0.14	0.72	21.88	1.20	1.10	1.06
2325	3.65	3.51	0.14	0.70	22.05	1.20	1.10	1.06
2350	3.66	3.51	0.15	0.68	22.23	1.20	1.10	1.05
2375	3.66	3.52	0.14	0.67	22.27	1.20	1.09	1.06
2400	3.67	3.53	0.14	0.68	22.28	1.20	1.09	1.05
2425	3.67	3.53	0.14	0.73	22.13	1.20	1.08	1.06
2450	3.68	3.55	0.13	0.77	21.93	1.21	1.08	1.05
2475	3.70	3.56	0.14	0.77	21.57	1.22	1.08	1.05
2500	3.70	3.57	0.13	0.82	21.22	1.23	1.08	1.05
2525	3.71	3.58	0.13	0.80	20.80	1.24	1.08	1.05
2550	3.72	3.60	0.12	0.89	20.32	1.26	1.08	1.05
2575	3.74	3.61	0.13	0.89	19.84	1.27	1.08	1.05
2600	3.76	3.62	0.14	0.87	19.34	1.30	1.08	1.05
2700	3.81	3.68	0.13	0.86	17.43	1.38	1.09	1.06
2800	3.90	3.77	0.13	0.99	15.65	1.48	1.10	1.08
2900	4.01	3.88	0.13	0.96	14.08	1.60	1.12	1.10
3000	4.15	4.02	0.13	1.02	12.71	1.75	1.15	1.13
3100	4.32	4.20	0.11	1.27	11.55	1.92	1.19	1.17
3200	4.52	4.41	0.11	1.38	10.55	2.11	1.25	1.22
3300	4.76	4.66	0.10	1.53	9.71	2.34	1.32	1.28
3400	5.03	4.96	0.07	1.64	9.01	2.59	1.40	1.37
3500	5.37	5.33	0.04	1.76	8.40	2.92	1.51	1.48
3600	5.76	5.74	0.02	1.92	7.94	3.31	1.63	1.63

¹ Total Loss = Insertion Loss+ 3 dB Splitter Loss

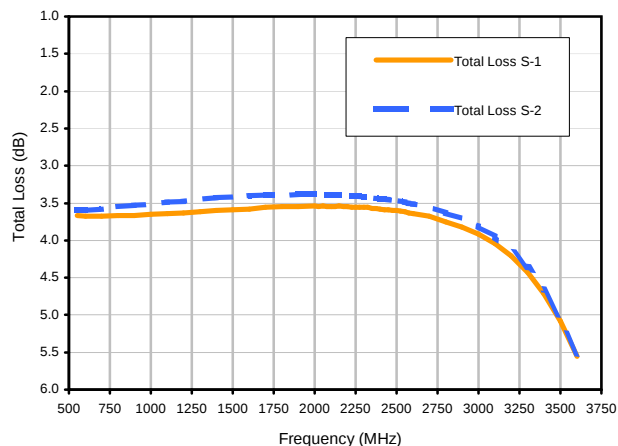
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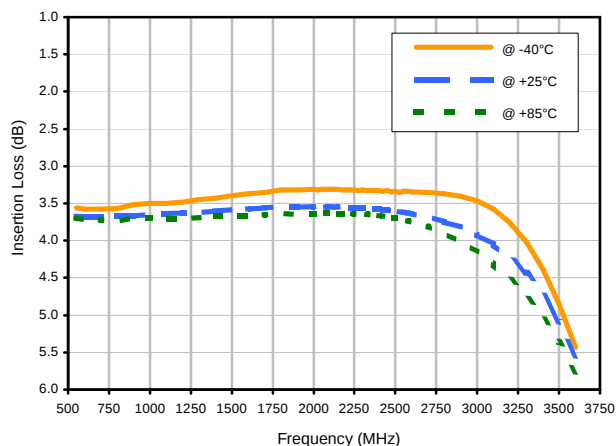
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Typical Performance Curves

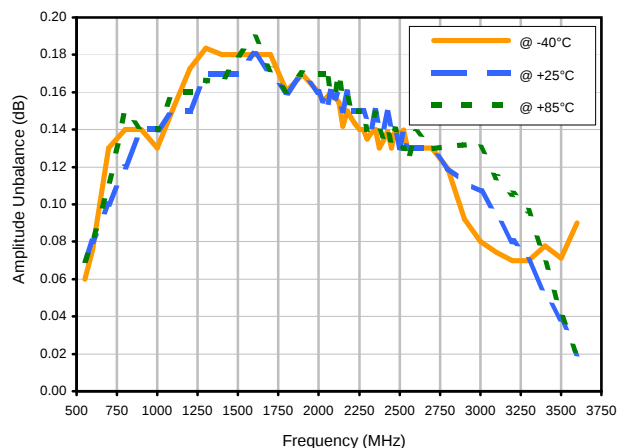
Total Loss



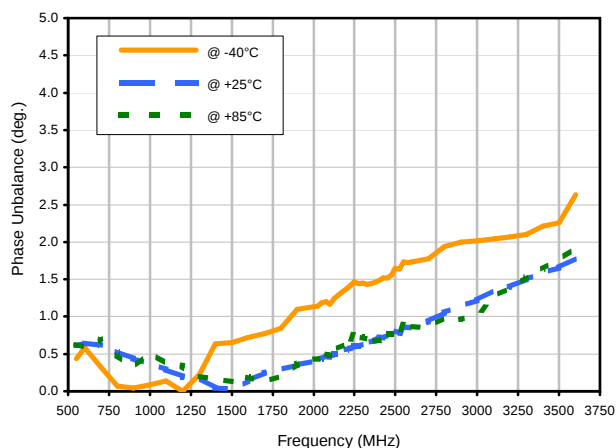
Total Loss S-1 vs. TEMPERATURE



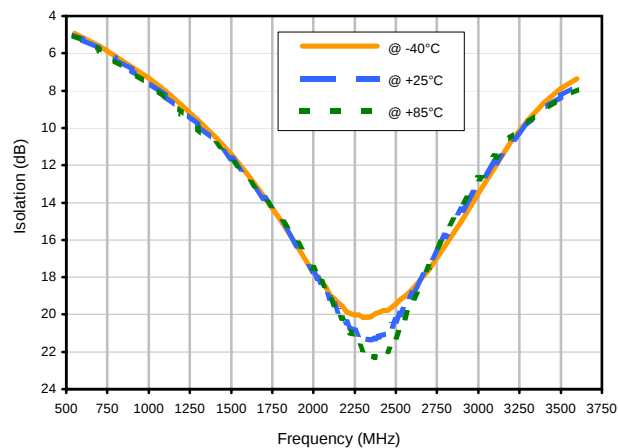
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE

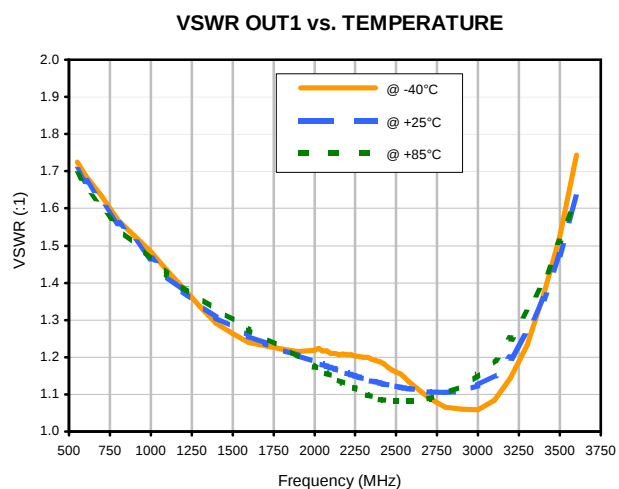
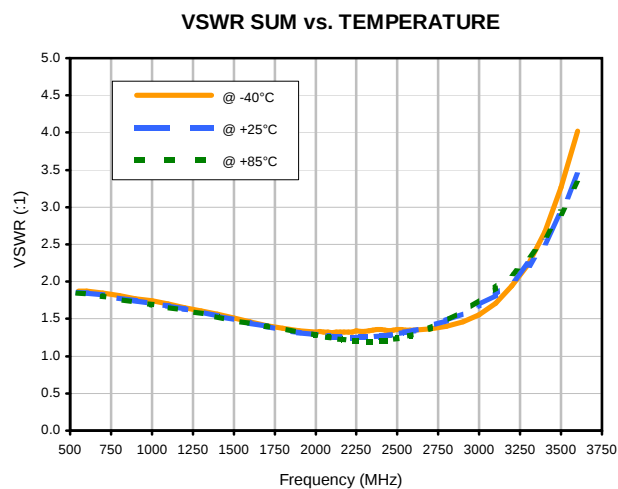
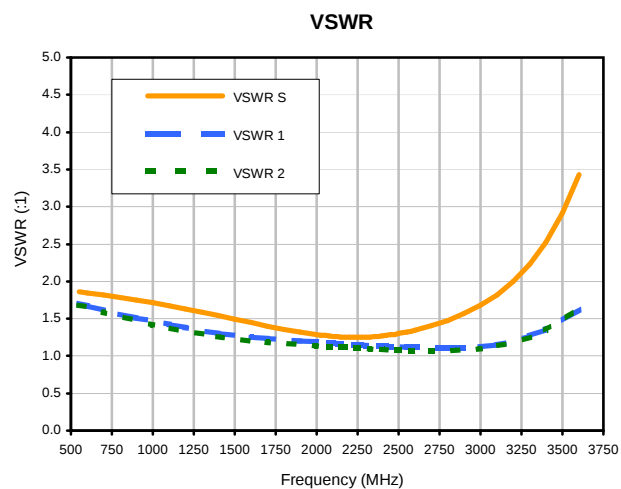


Isolation 1-2 vs. TEMPERATURE



REV. X2
SBA-2-22
100706
Page 1 of 2

Typical Performance Curves

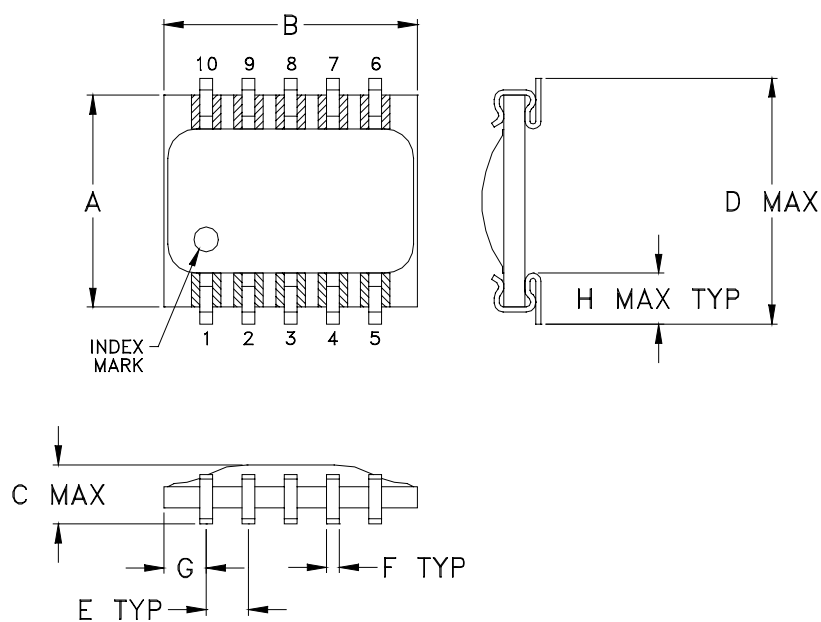


Case Style

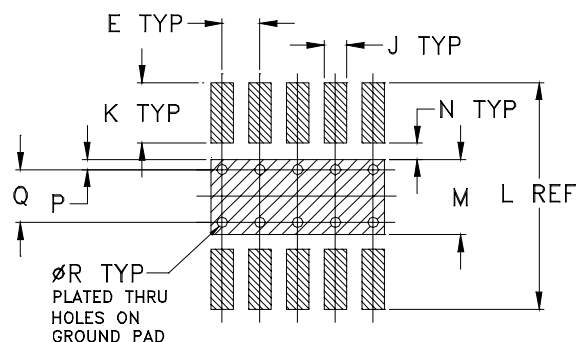
SM2

SM2

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

ADJACENT GROUND PINS SHALL BE CONNECTED
TO EACH OTHER AND TO GROUND PAD

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	P
SM2	.250 (6.35)	.300 (7.62)	.095 (2.41)	.290 (7.37)	.050 (1.27)	.015 (0.38)	.050 (1.27)	.060 (1.52)	.030 (0.76)	.080 (2.03)	.300 (7.62)	.100 (2.54)	.020 (0.51)	.015 (0.38)

CASE #	Q	R	WT. GRAM
SM2	.070 (1.78)	.014 (0.36)	.3

Dimensions are in inches (mm). Tolerances: $\pm .005$

Notes:

- Case material: Plastic encapsulation on Ceramic base.
- Termination finish:
For RoHS Case Styles: Tin plate over Nickel plate.
For RoHS-5 Case Styles: Tin-Lead plate.



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Tape & Reel Packaging TR-F34



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel see note	
16	12	7	Small quantity standard (see note)	20
				50
				100
				200
		13	Standard	500
				1000

Note: Availability of small reel quantity varies by model.
Refer to pricing and availability on individual model dashboard.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



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REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M82272	NEW RELEASE	08/05/02	MMG	DJ
A	M101144	ADDED SM1 CASE STYLE TO TITLE	10/07/05	MMG	HY
		& NOTE 2, UPDATED DWG.			
B	M102713	ADDED "...WITH SMOBC"	01/14/06	GF	IL

.044 TRACE WIDTH, 3 PL.
 (SEE NOTE BELOW)

10X ϕ .015 PTH
 FOR GROUND

45° TYP

.088 TYP

.020 TYP

.035

.070

PACKAGE OUTLINE

PIN 1

.016 TYP

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" $\pm$.0015"; COPPER 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

UNLESS OTHERWISE SPECIFIED

INITIALS

DATE _____

DIMENSIONS ARE IN INCHES

DRAWN

MMG

07/19/02

TOLERANCES ON:

11

IV

09 / 01 / 02

2 PL DECIMALS ±

CHECKED

08/01/02

3 PL DECIMAL

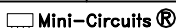
APPROVE

DJ

08/05/02

ANGLES $\pm$
FRACTIONS $\pm$

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ASHEETA1.DWG REV:A DATE:01/12/95


Mini-Circuits® 13 Neptune Avenue
Brooklyn NY 11235

PL, "lg", SM1/SM2, SBA, TB-95

SIZE
A

CODE IDENT
15542

DRAWING NO:
98-PL-070

REV: B

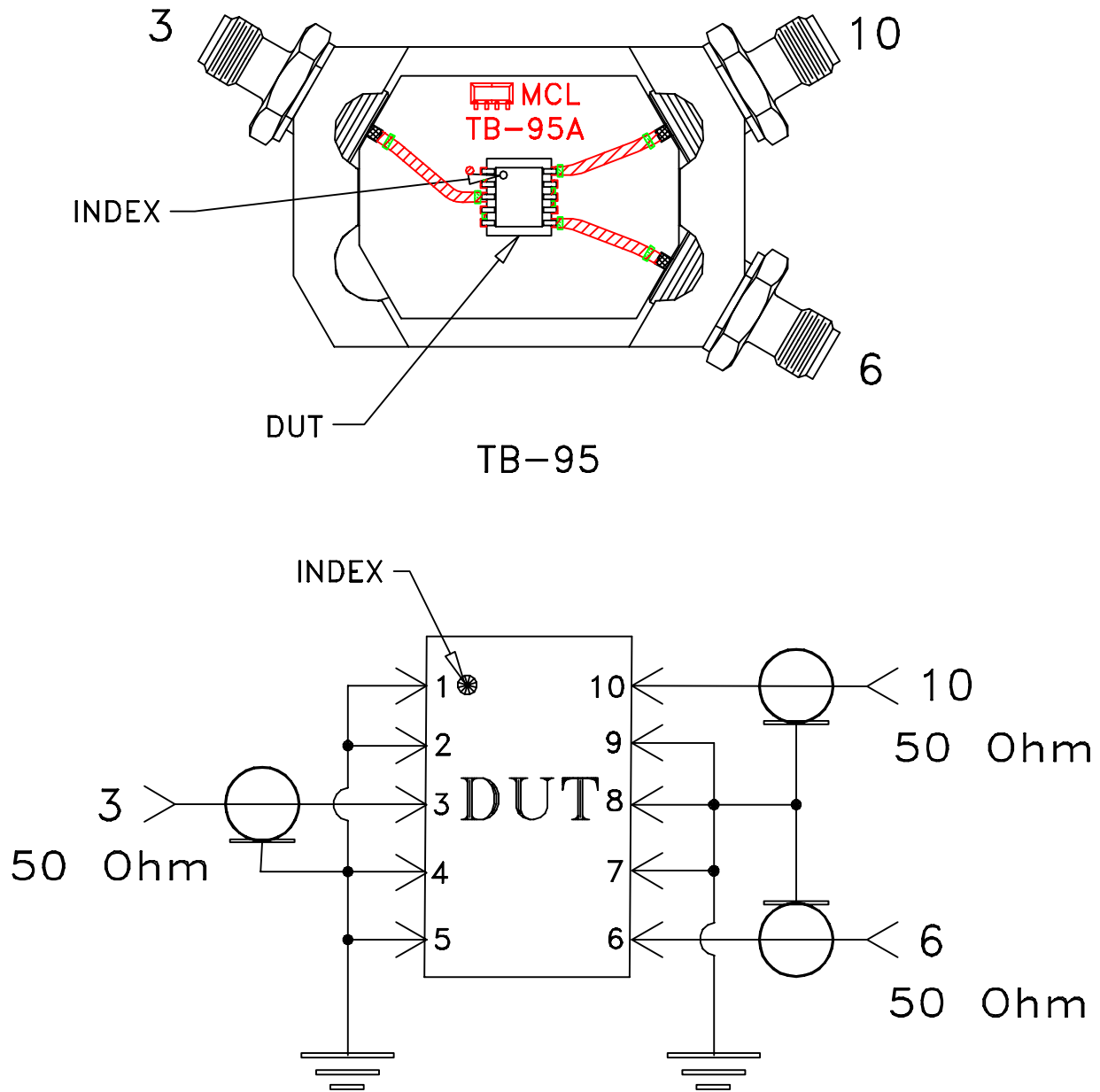
FILE: 98PL070

SCALE: 10:1

SHEET:	1	OF	1
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Evaluation Board and Circuit

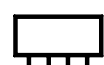
For Pin Connections refer to Data Sheet of the DUT



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers R04350 or equivalent,
Dielectric Constant=3.5, Thickness=.020 inch.

 Mini-Circuits®



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215